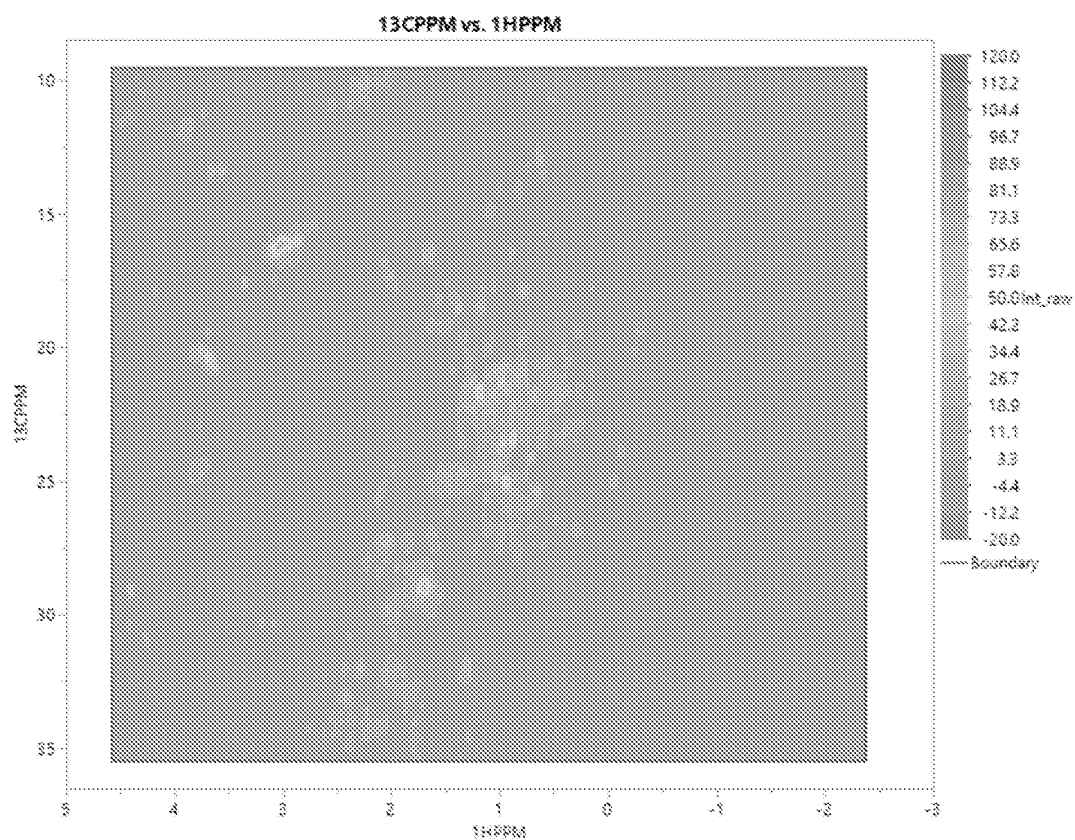


FIG. 1A

Raw Data

18 Level Contour Plot

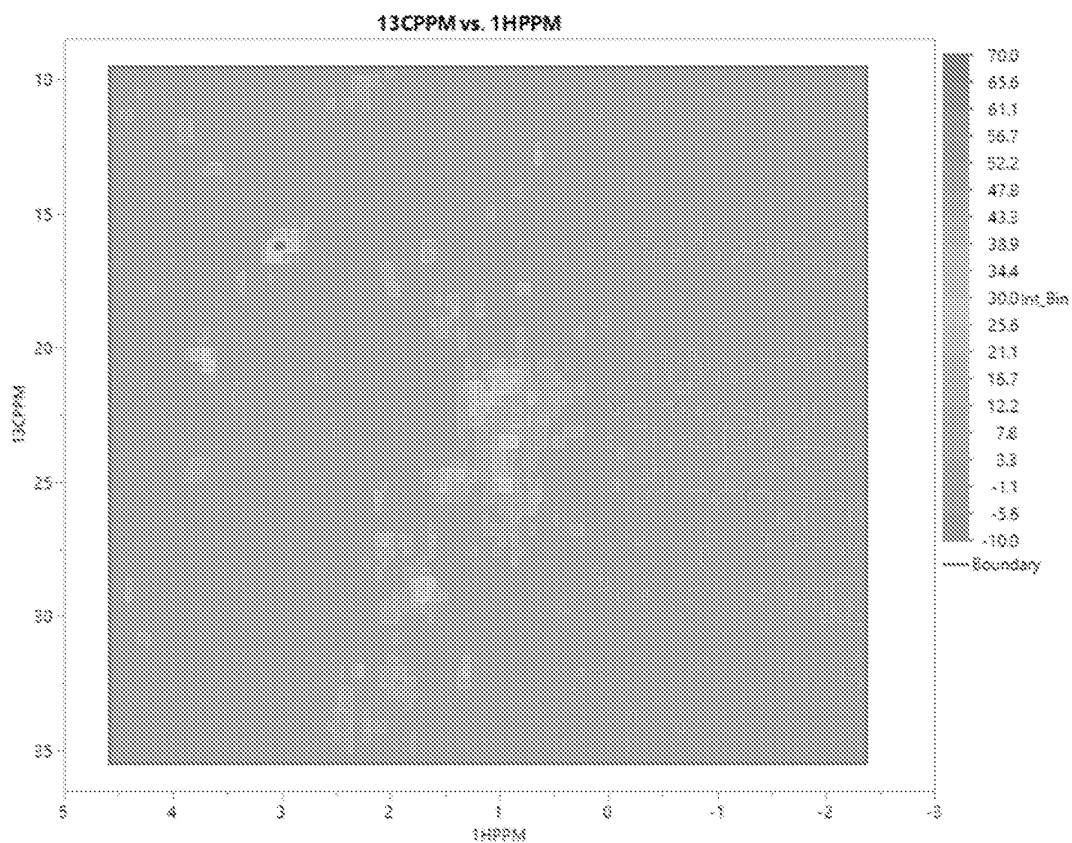
Data Structure:

-3 Columns:

- (1) X Coordinate
- (2) Y Coordinate
- (3) Intensity

-131,072 Rows

FIG. 1B

**Binned Data**

64x128 bin

18 Level Contour Plot

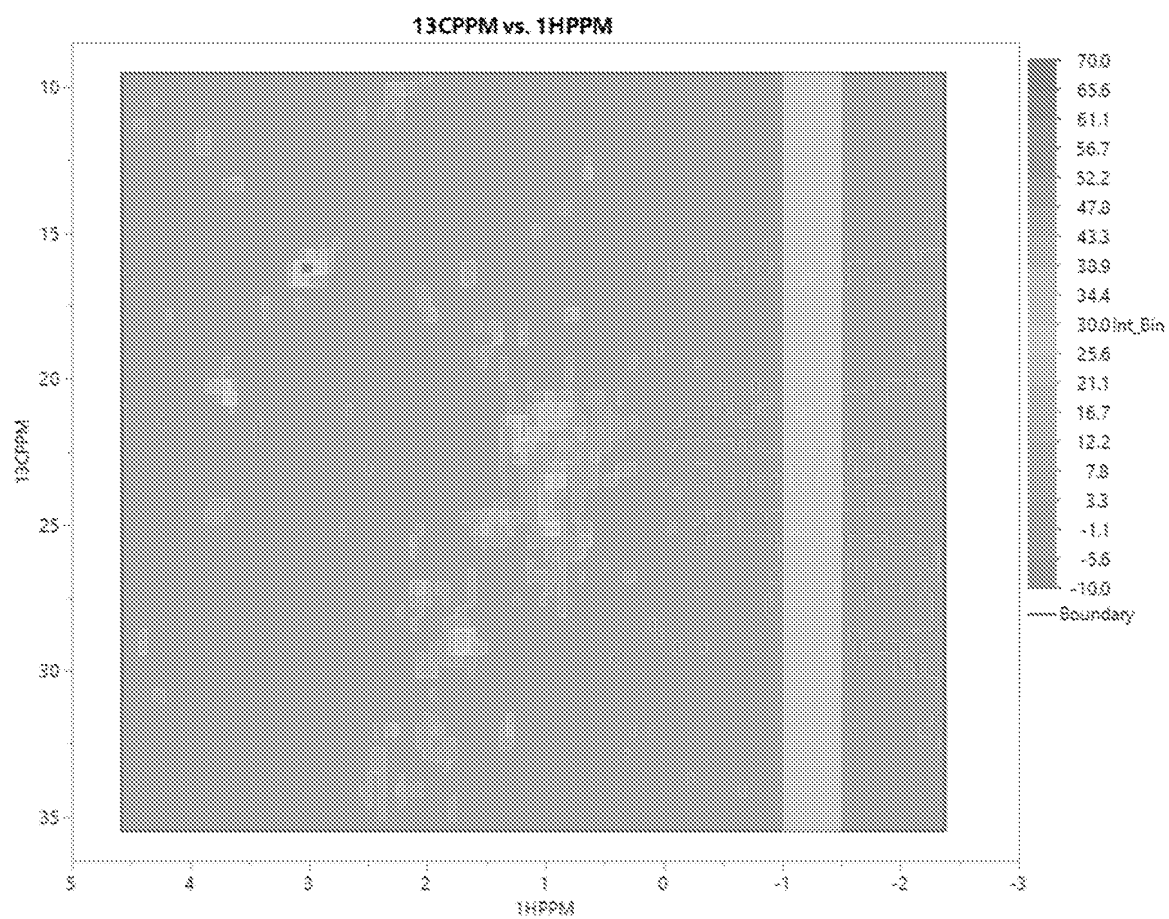
Data Structure:

-3 Columns:

- (1) X Coordinate
- (2) Y Coordinate
- (3) Intensity

-8,192 Rows**-6.25% of Raw Data**

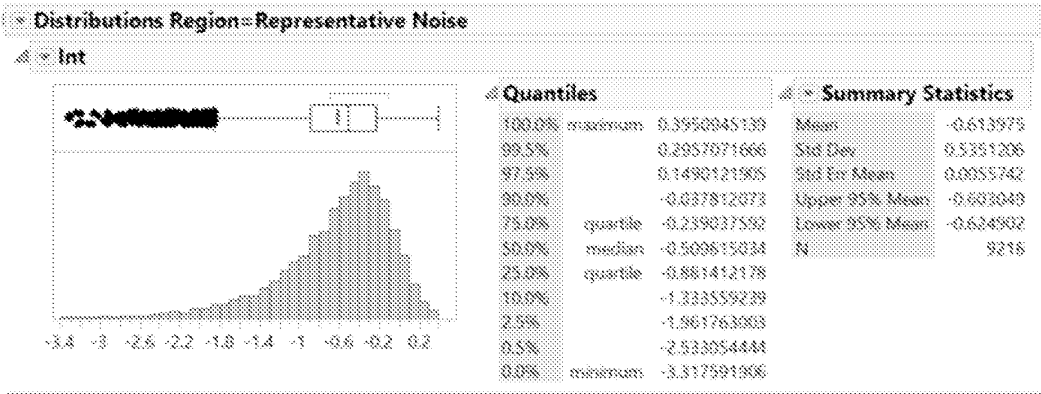
FIG. 1C



Noise Area:
-1.5 to -1.0 ppm 1H
Full 13C

FIG. 1D

Raw Data (unbinned)



Binned Data

"RMS"

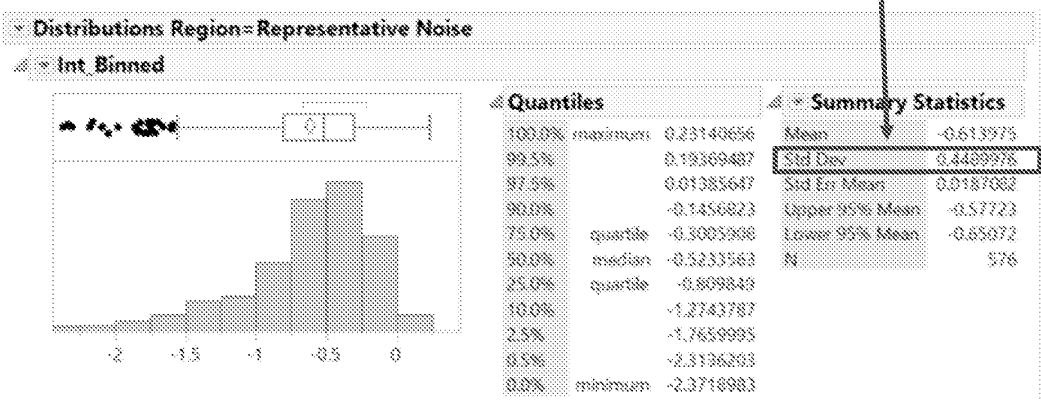
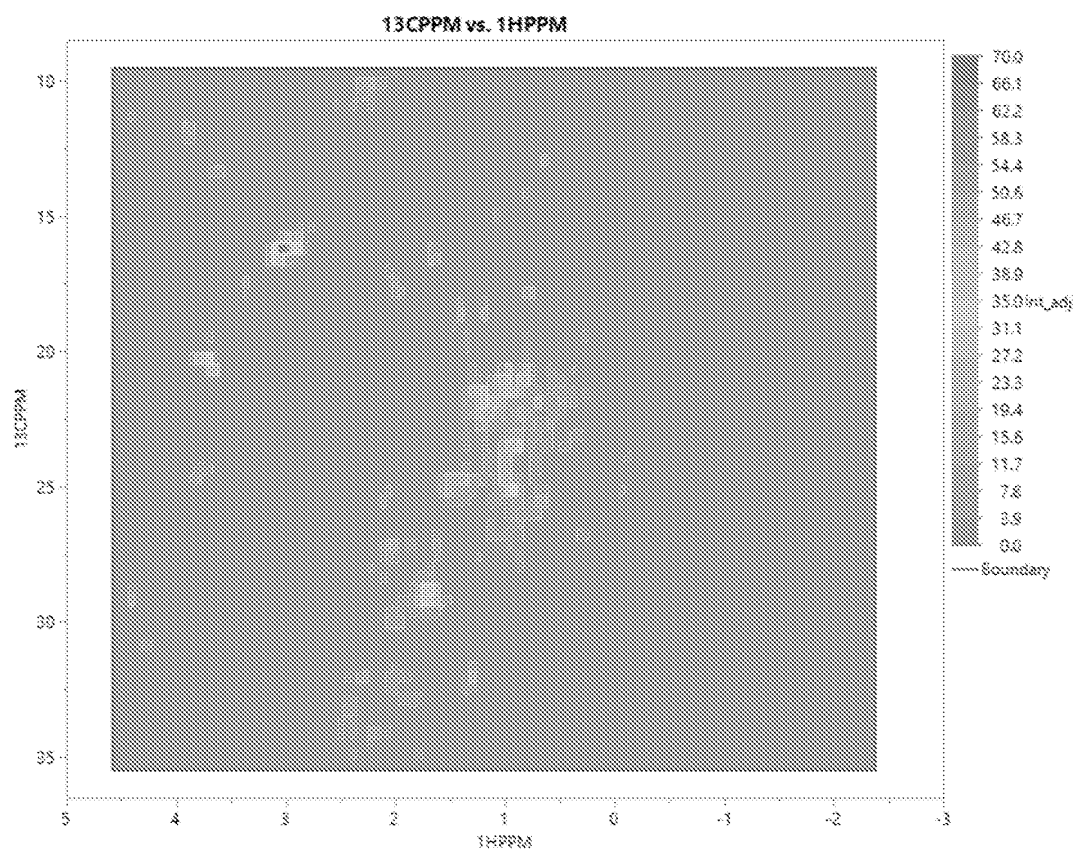


FIG. 1E



$$RMS = \text{StdDev}(Int_bin)$$

$$\text{If} \left(\begin{array}{l} Int_Bin < 2 \cdot RMS \Rightarrow 0 \\ \text{else} \Rightarrow Int_Bin \end{array} \right)$$

FIG. 1F

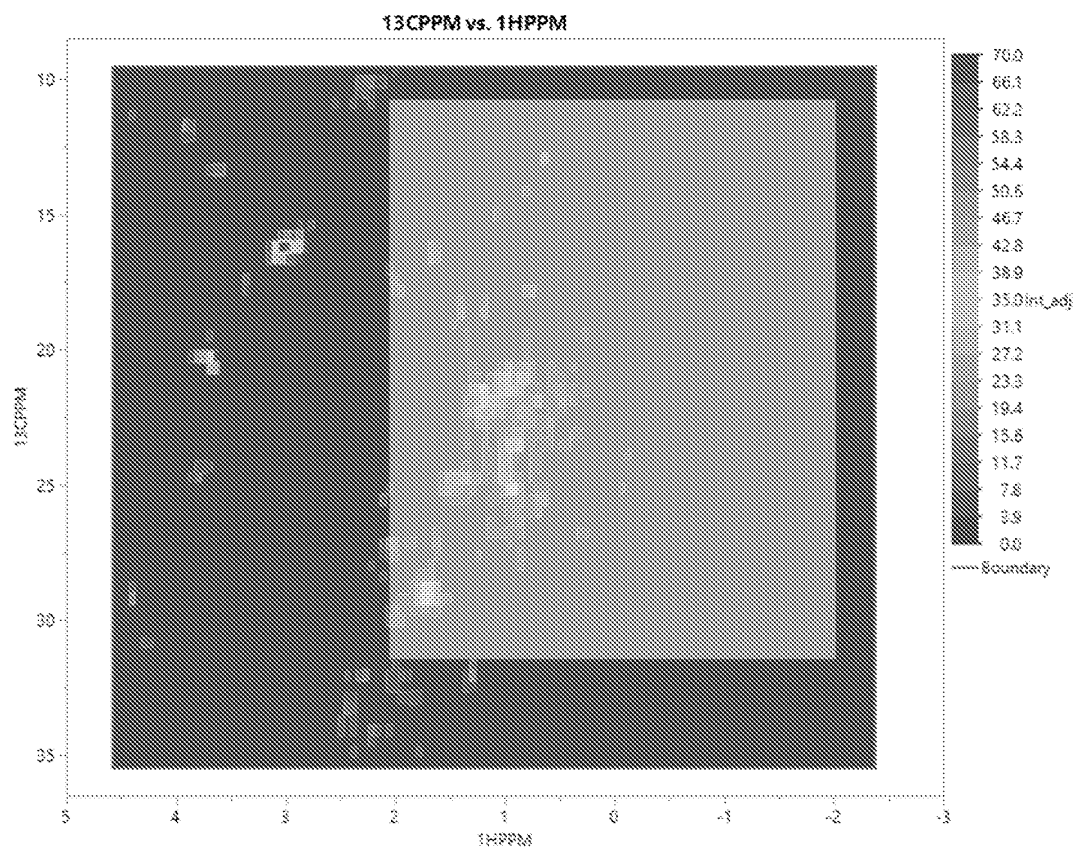


FIG. 1G

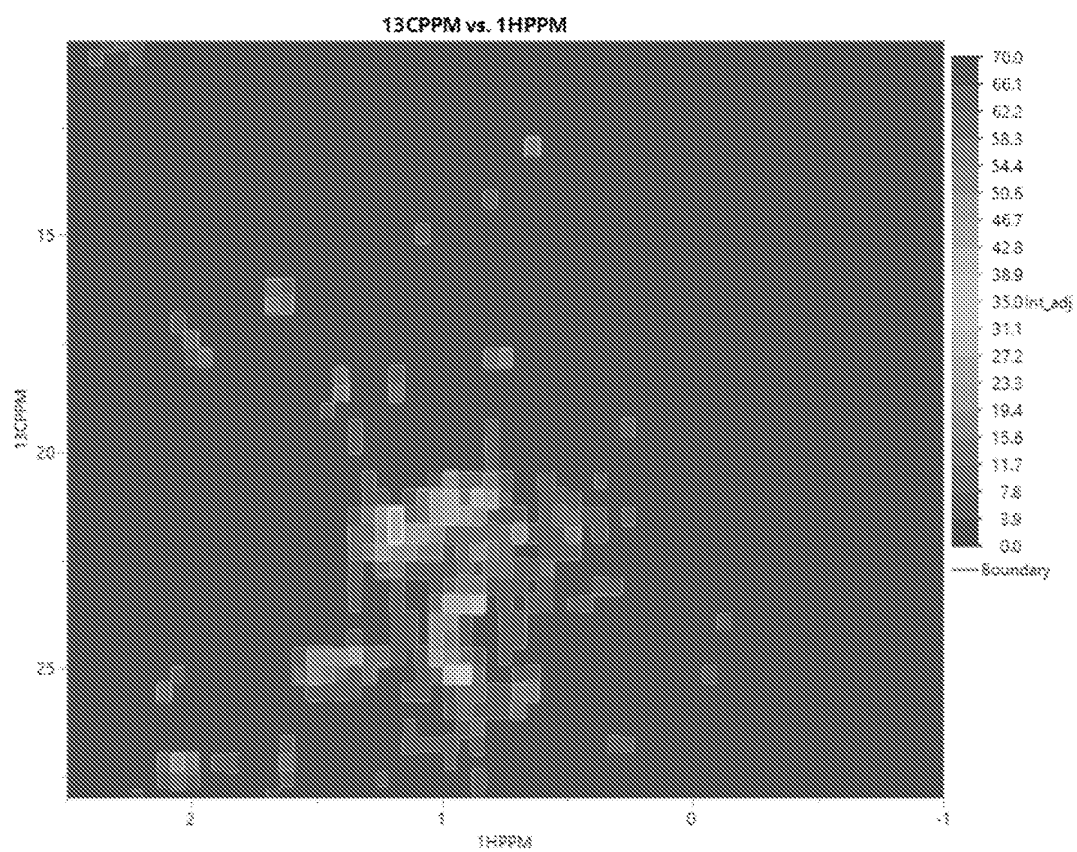


FIG. 1H

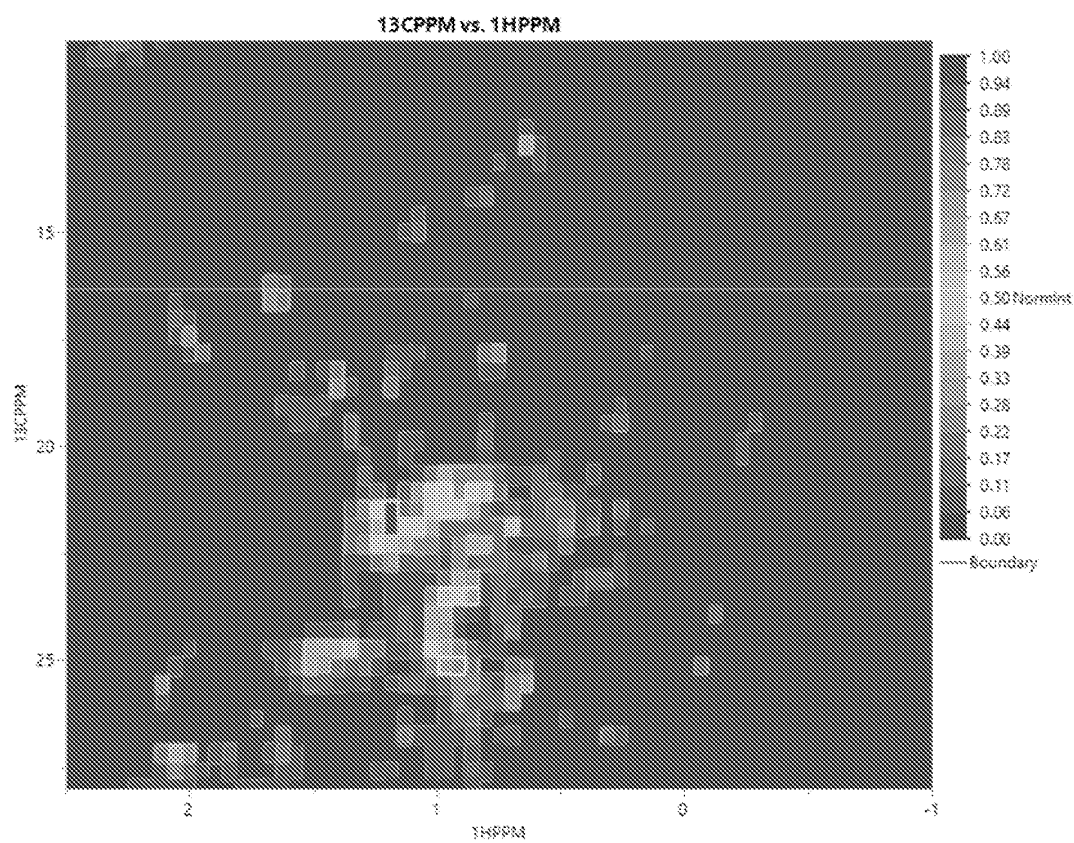


FIG. 11

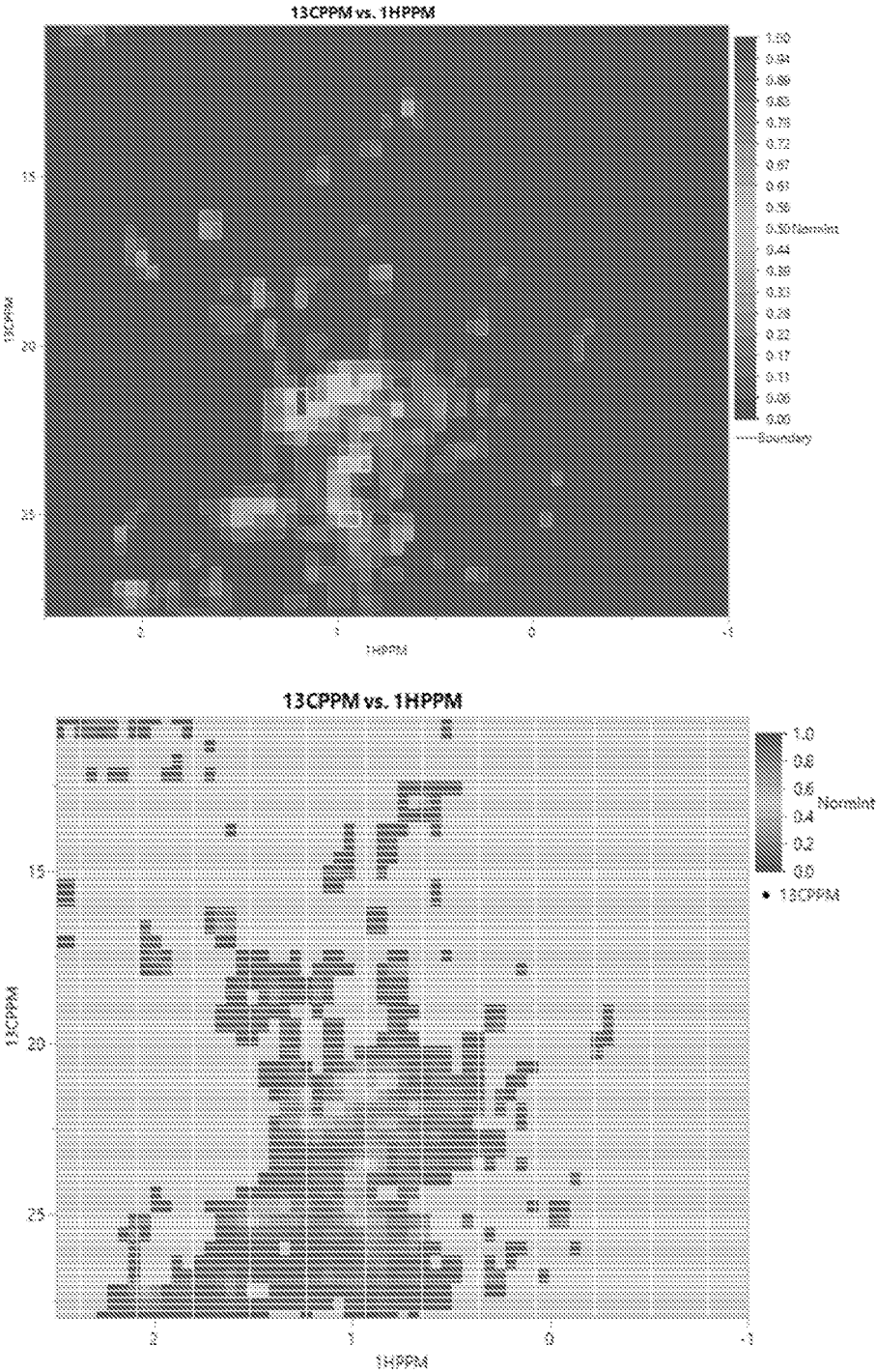


FIG. 1J

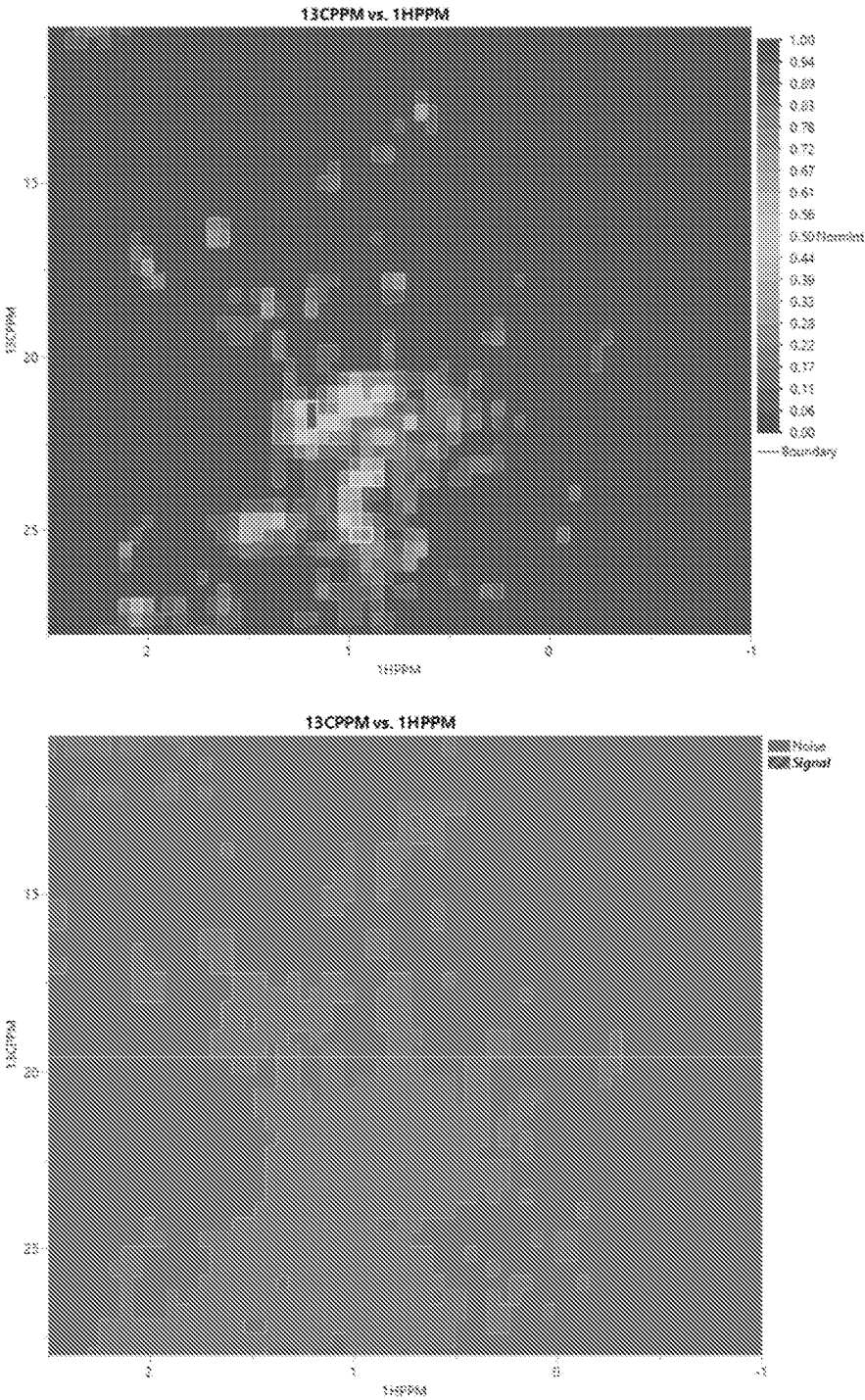
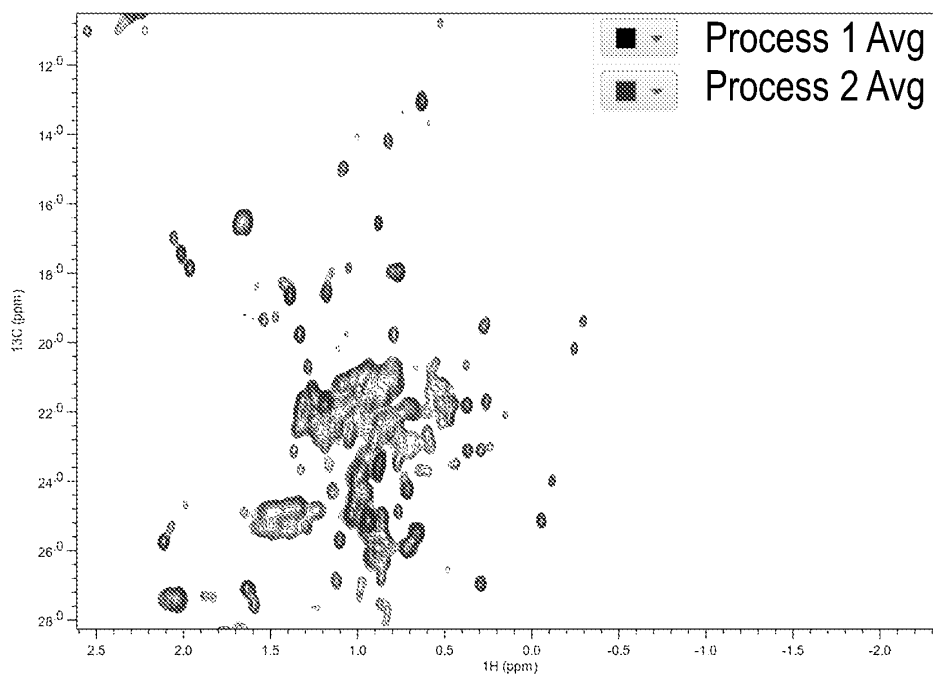


FIG. 2
mAb1



mAb2

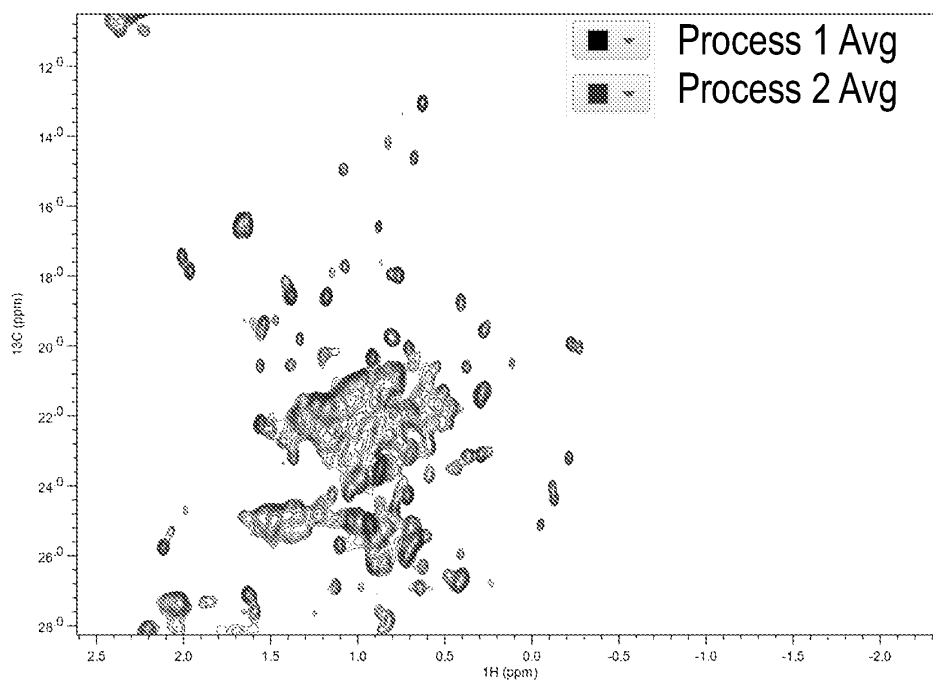


FIG. 3

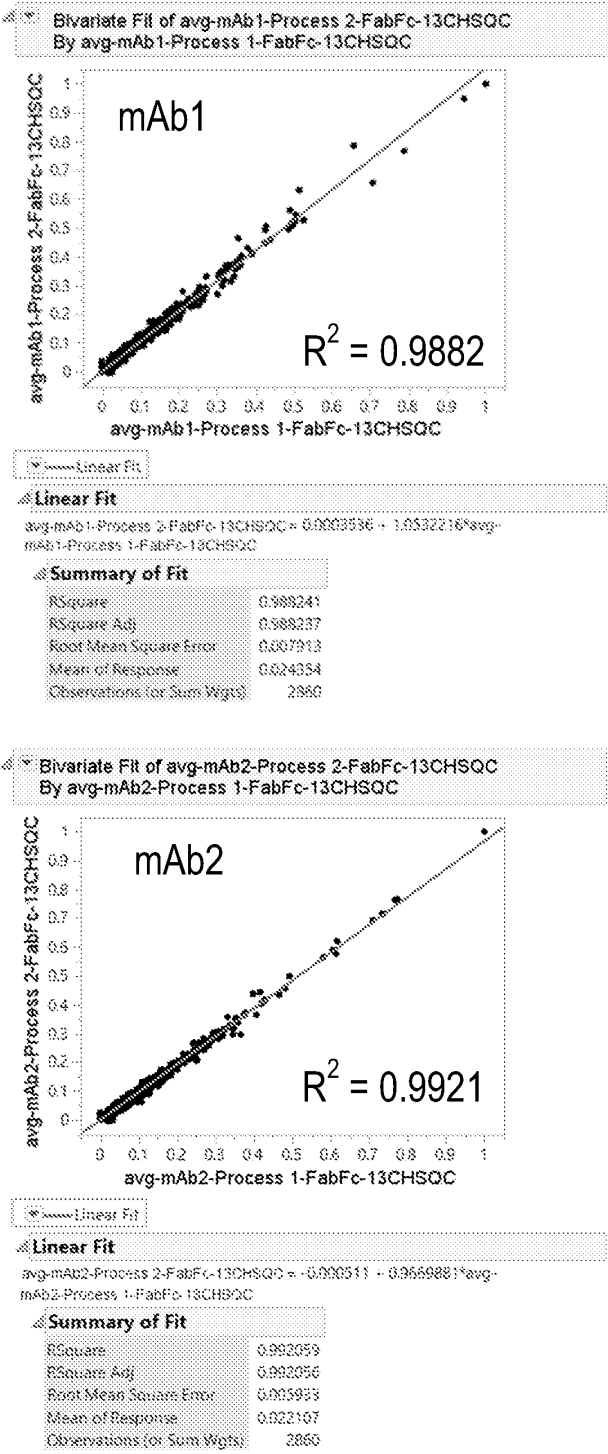


FIG. 4A

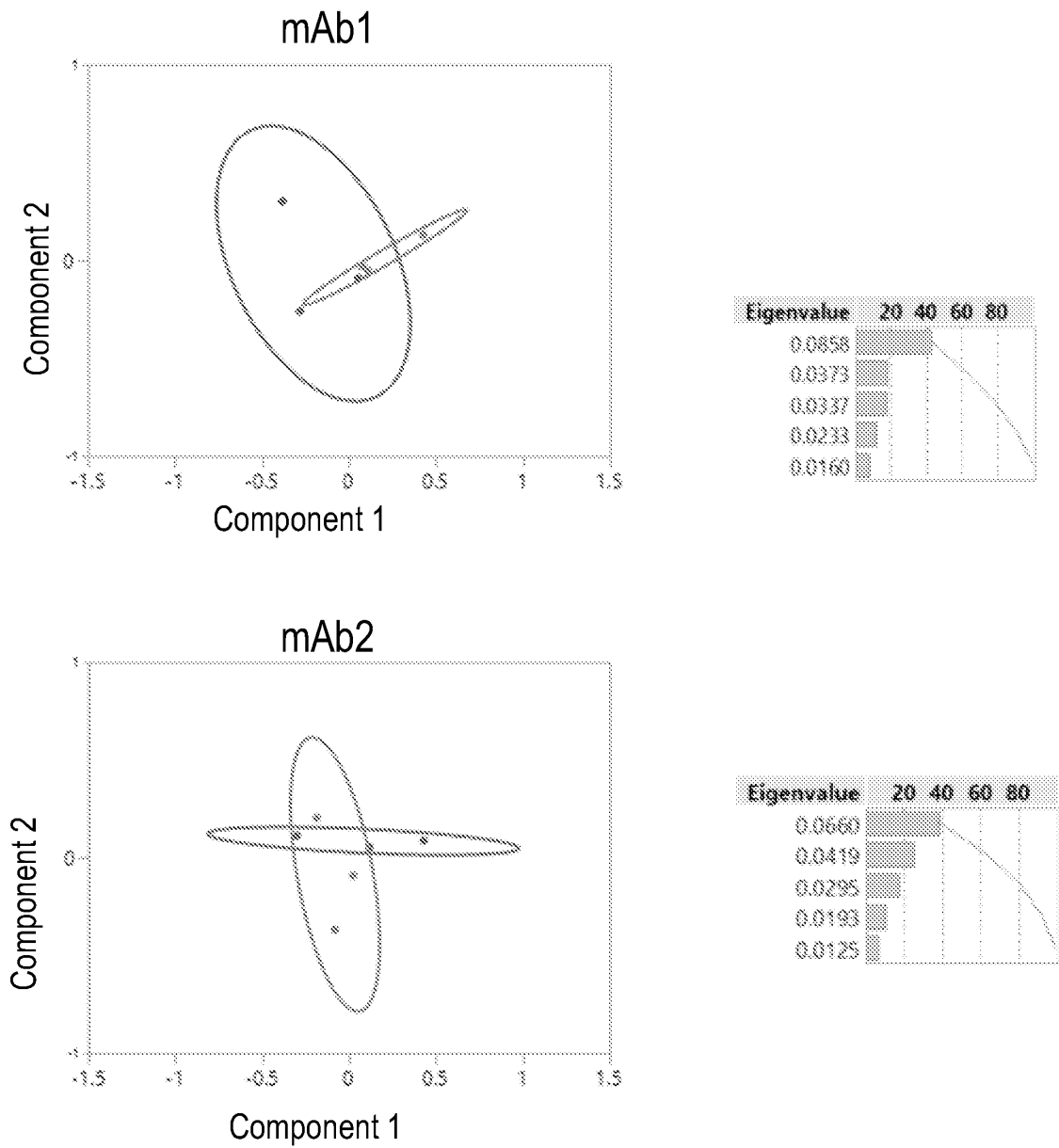


FIG. 4B
mAb1

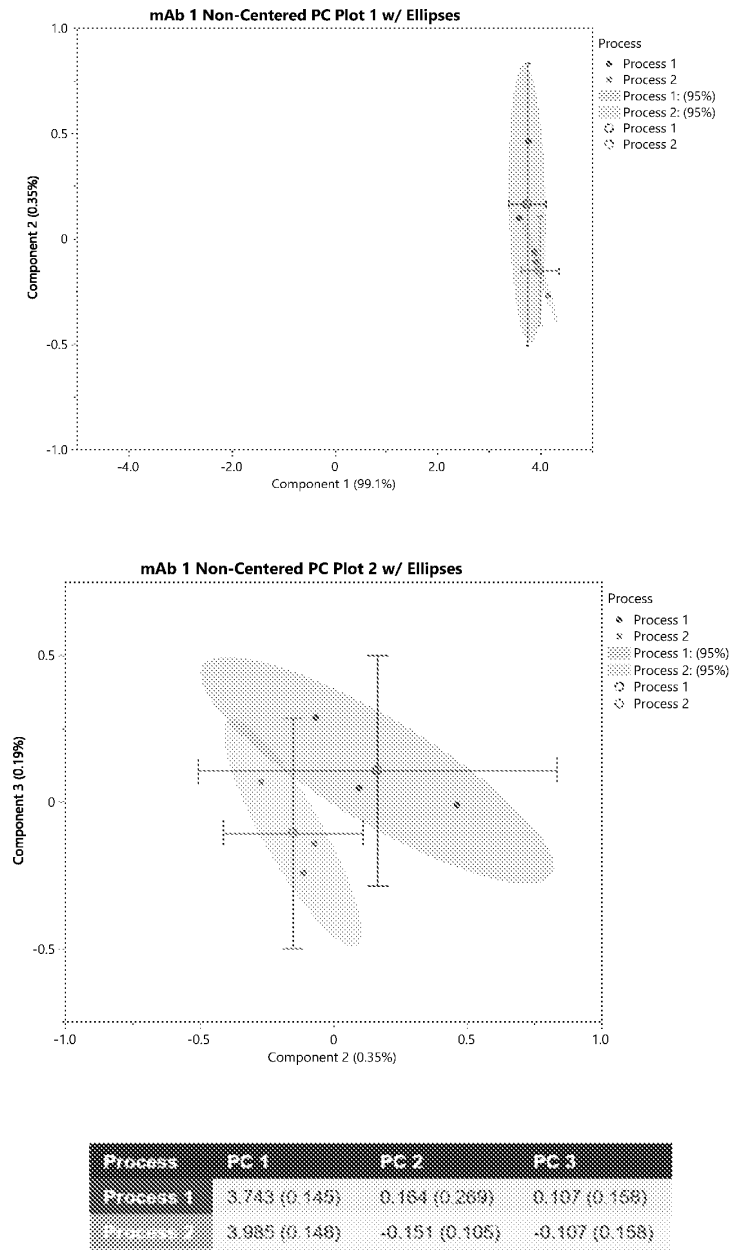
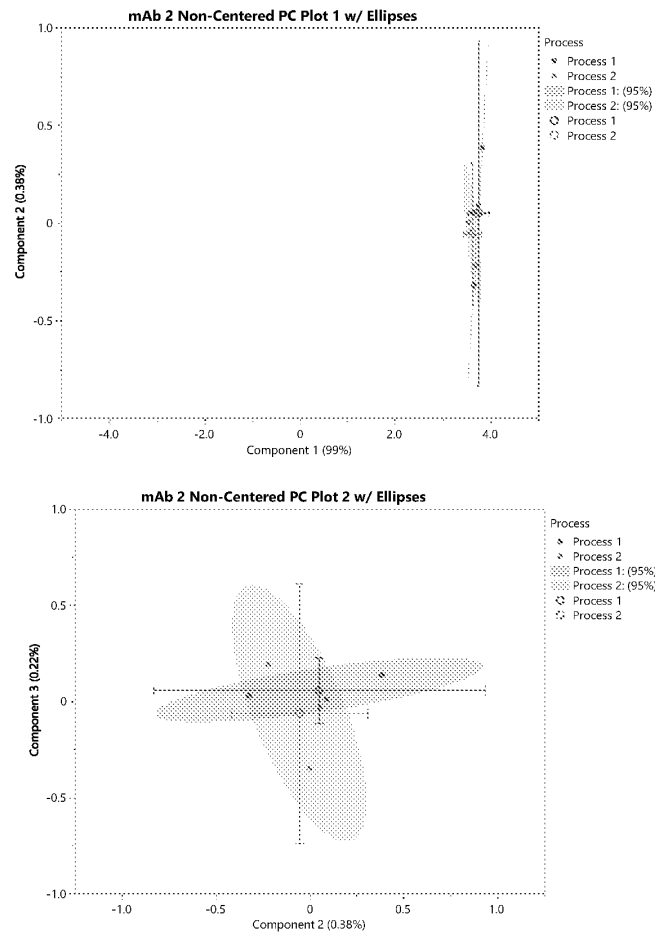
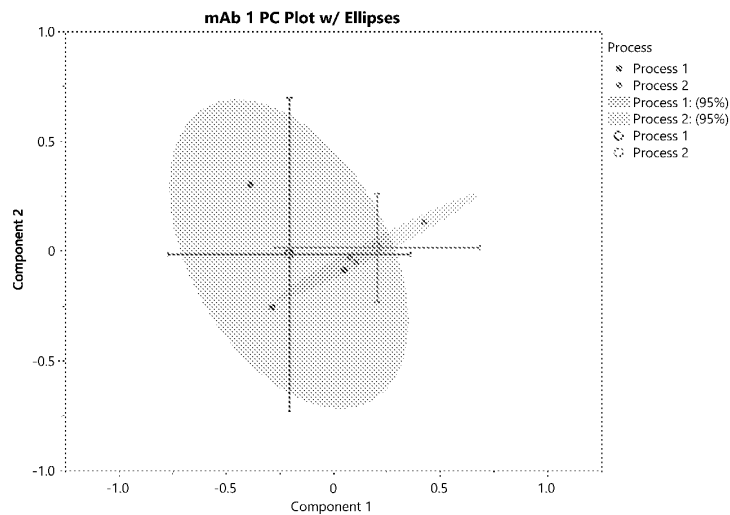


FIG. 4C
mAb2



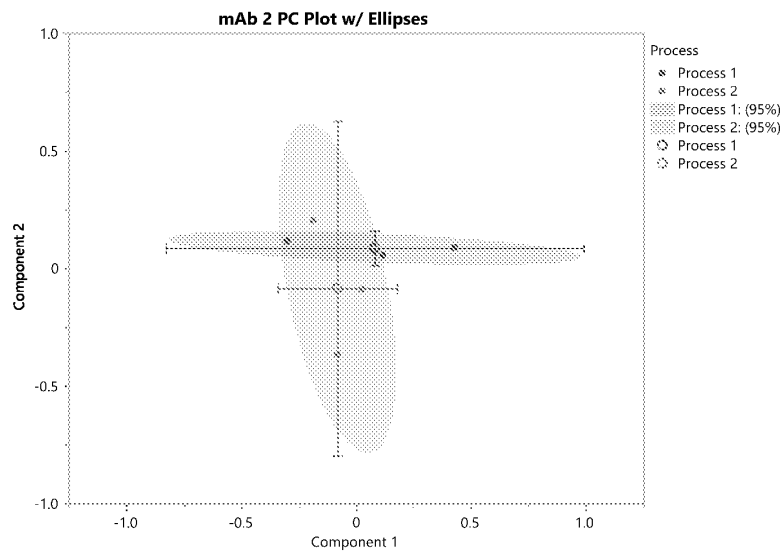
Process	PC 1	PC 2	PC 3
Process 1	3.742 (0.088)	0.050 (0.355)	0.057 (0.069)
Process 2	3.611 (0.077)	-0.056 (0.146)	-0.064 (0.272)

FIG. 4D
mAb1



Process	PC 1	PC 2
Process 1	-0.205 (0.228)	-0.016 (0.287)
Process 2	0.205 (0.193)	0.016 (0.100)

mAb2



Process	PC 1	PC 2
Process 1	0.081 (0.388)	0.086 (0.029)
Process 2	-0.081 (0.105)	-0.085 (0.287)